Jobs

The Jobs API allows you to export large sets of analysis data asynchronously and download the results any time within 24 hours of the initial request. This is useful for protection from long-running requests that may be impacted by unreliable networks.

Base Route	/v1/jobs
Endpoints	**GET** /v1/jobs /v1/jobs/:id /v1/jobs/:id/download **POST** /v1/jobs **DELETE** /v1/jobs/:id
Produces	JSON
Pagination	No
Application Permissions Required	"API Access: Create, edit, and delete" and access to view the portfolio data requested.
OAuth Scopes	PORTFOLIO

> ≡ **Jobs API does not yet support transactions data**
>
> For the moment, you can only export large batches of portfolio data with the jobs API. Transactions data is not yet supported.

Resource Overview

The Jobs API returns a resource object described by the below attributes, including the status, errors, and any Portfolio API parameters used in the job. Asynchronous job requests can be made for both the Portfolio Query and View APIs.

All attributes will be returned in successful **GET** & **POST** responses.

ATTRIBUTE	DESCRIPTION	EXAMPLE
job_type	Type of job. String. Required.	"portfolio_view_results"
started_at	The start time of the job in UTC. String. ISO 8601 date format.	"2020-04-15T21:30:16Z"
completed_at	The completed time of the job in UTC. String. ISO 8601 date format.	"2020-04-15T21:30:17Z"
percent_complete	Percentage complete. Number.	1.0
status	The current status of the job. String.	See "Status" below.
errors	Errors that occurred running the job. Object.	See "Errors" below.
parameters	The parameters required to create the type of job specified. Array of Objects.	See "Parameters" below.

Status

STATUS	DESCRIPTION
Queued	Job has not yet been processed by Addepar servers.
In Progress - Waiting For Capacity	Job has been placed back in queue because there is no available capacity.
In Progress	Job is currently being processed by Addepar servers.
Picked Up By Job Runner	Job has been picked up by the server and is waiting to run.
Completed	Job has finished processing. Results can be retrieved from the URL in the Location header.
Canceled	Job was canceled by the user.
Timed Out	Job results have expired and results have been deleted. Results are deleted 24 hours after a job is created.
Failed	Job processing failed due to a server issue. Error details are unavailable.
Rejected	Job exceeds the maximum quota of the queue.
Error Cancelled	Job canceled due to an error. Details are provided within the error field of the response.
Cancel Requested	Job in progress and has received a request to cancel.
User Cancelled	Job canceled.

Errors

PARAMETER	DESCRIPTION	EXAMPLE
status	HTTP status code.	"400"
title	HTTP status title.	"Bad Request"
detail	Error details.	"Invalid portfolio: ENTITY 10"

Relationships

RELATIONSHIP	DESCRIPTION
creator	The user who created the job.

RELATIONSHIPS

```
"relationships":{
  "creator":{
    "links":{
      "self":"/v1/jobs/2/relationships/creator",
      "related":"/v1/jobs/2/creator"
    },
    "data":{
      "type":"users",
      "id":"22"
    }
  }
}
```

Parameters

Required parameters are specified for portfolio view and query jobs within each description.

PARAMETER	DESCRIPTION	EXAMPLE
portfolio_type	Required for portfolio view and portfolio query jobs. Supported types: - ENTITY - GROUP - FIRM Also supported for portfolio view jobs: - FIRM_ACCOUNTS - FIRM_UNVERIFIED_ACCOUNTS The type of portfolio.	entity
portfolio_id	Required for portfolio view and portfolio query jobs. Portfolio IDs can be configured in Addepar. IDs can represent one entity or a group of entities (query jobs only). If the portfolio_type is FIRM, the portfolio_id must be 1.	1
view_id	Required for portfolio view jobs. ID of the portfolio view.	12
output_type	Required for portfolio view jobs. The output format of the exported result. Supported types: - CSV - TSV - XLSX	csv
start_date	Required for portfolio view and portfolio query jobs. The start date of the time period of portfolio data. "YYYY-MM-DD."	2016-01-01
end_date	Required for portfolio view and portfolio query jobs. The end date of the time period of portfolio	2016-02-02

PARAMETER	DESCRIPTION	EXAMPLE
columns	Required for portfolio query jobs. See Attributes to discover supported attributes. See Arguments to discover supported attribute arguments.	[{"key": "time_weighted_return"}]
groupings	Required for portfolio query jobs. List of grouping attribute keys with optional arguments. Array of Objects. Omitted arguments will use default values. See Attributes to discover supported attributes. See Arguments to discover supported attribute arguments.	[{"key": "asset_class"}]
filters	Optional for portfolio query jobs. Filters rows from the result. Array of Objects. To learn more, reference the Filter Object within Portfolio Query Jobs.	[{"attribute": "asset_class", "type": "discrete", "operator": "include", "values": ["Equity", "Fixed Income"]}]
hide_previous_holdings	Optional for portfolio query jobs. Set to true to exclude holdings not held at end of current period. Boolean. (default: false)	false

Create a Portfolio View Job

Creates an asynchronous job to extract portfolio data for a saved view in Addepar.

> **≡Note**
>
> Each job has a timeout limit of 4 hours.

POST /v1/jobs

Example:

REQUEST   RESPONSE

```
POST https://examplefirm.com/api/v1/jobs

{
  "data":{
    "type":"jobs",
    "attributes":{
      "job_type":"portfolio_view_results",
      "parameters":{
        "view_id":"2",
        "portfolio_type":"entity",
        "portfolio_id":"22",
        "output_type":"json",
        "start_date":"2011-12-31",
        "end_date":"2013-01-15"
      }
    }
  }
}
```

Response Codes:

- `202 Accepted` : Success. Returns JSON with created job information.
- `400 Bad Request` : Bad JSON: API format, missing parameters or badly formatted parameters
- `403 Forbidden` : User lacks API permission or has not granted the appropriate scope

Create a Portfolio Query Job

Creates an asynchronous job to extract portfolio data with a query.

POST `/v1/jobs`

Example:

REQUEST	RESPONSE

```
POST https://examplefirm.com/api/v1/jobs
```

```json
{
 "data":{
  "type":"job",
  "attributes":{
   "job_type":"PORTFOLIO_QUERY",
   "parameters":{
    "columns":[
     {
      "key":"value"
     },
     {
      "key":"value",
      "arguments":{
       "time_point":"2018-12-31"
      }
     },
     {
      "key":"time_weighted_return",
      "arguments":{
       "period":"2019-12-31 to 2020-03-31"
      }
     }
    ],
    "groupings":[
     {
      "key":"asset_class"
     }
    ],
    "filters":[
     {
      "attribute":"asset_class",
      "type":"discrete",
      "operator":"include",
      "values":[
       "Equity",
       "Fixed Income"
      ]
     }
    ],
    "portfolio_type":"entity",
    "portfolio_id":[
     22
    ],
    "start_date":"2020-02-18",
    "end_date":"2020-03-18"
   }
  }
 }
}
```

Response Codes:

- `202 Accepted` : Success. Returns JSON with created job information.
- `400 Bad Request` : Bad JSON: API format, missing or badly formatted parameters
- `403 Forbidden` : User lacks API permission or has not granted the appropriate scope

Check the Status of a Job

Retrieves the status and parameters for a specific job.

GET `/v1/jobs/:id`

Example:

REQUEST	RESPONSE

```
GET https://examplefirm.com/api/v1/jobs/13
```

Response Codes:

- `200 OK` : Success
- `404 Not Found` : Unable to locate the job with the given id, or user does not have permission to view the given job
- `403 Forbidden` : User lacks API permission or has not granted the appropriate scope

Download the Results of a Job

Returns the results of the given job.

> **Note**
>
> Job results are deleted 24 hours after a job is created.

GET `/v1/jobs/:id/download`

Example:

REQUEST	RESPONSE

```
GET https://examplefirm.com/api/v1/jobs/13/download
```

Response Codes:

- `200 OK` : Success. Returns a JSON, CSV, TSV or XLSX as requested.
- `303 See Other` : Completed asynchronous job. Follow the link in the "Location" header to retrieve the results
- `404 Not Found` : Job has not completed or does not return any results
- `410 Gone` : Results have expired

Check the Status of All Jobs

Retrieves the status and parameters of all jobs.

GET `/v1/jobs`

Example:

REQUEST	RESPONSE

```
GET https://examplefirm.com/api/v1/jobs
```

Response Codes:

- `200 OK` : Success
- `403 Forbidden` : User lacks API permission or has not granted the appropriate scope

Cancel a job

Cancel a job that is has yet to start, is running, or already completed.

DELETE `/v1/jobs/:id`

When canceling a job with the status:

- `waiting_for_capacity` the job will not run. Status change: `user_canceled` .
- `in_progress` a request to cancel is submitted. Status change: `cancel_requested` , then `user_canceled` .
- `completed` the results are archived. Status change: `user_canceled` .

Example

```
REQUEST     RESPONSE

DELETE https://examplefirm.com/api/v1/jobs/:1234
```
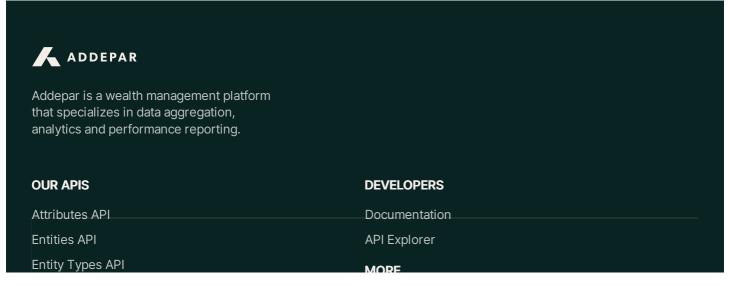
Response Codes:

- `202 No Content` : Success. Cancel request submitted.
- `404 Not Found` : Cannot locate the job with the given ID, or you don't have permission to view the job.

What's Next

Time to try it out for yourself:

API Explorer: Jobs

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Addepar is a wealth management platform
that specializes in data aggregation,
analytics and performance reporting.

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